I claim:

1. A wireless earphone with a built-in mobile communications module, comprising:

   a mobile communications module used to receive a first remote signal and emit a first reply modulation signal;

   a digital signal processor connected to said mobile communications module and used for processing digital signals;

   an earphone connected to said digital signal processor;

   a microphone connected to said digital signal processor; and

   a wireless communications module also connected to said digital signal processor and used to receive a second remote signal and emit a second reply modulation signal.

2. The wireless earphone with a built-in mobile communications module as claimed in claim 1, wherein said first remote signal is generated by a station.

3. The wireless earphone with a built-in mobile communications module as claimed in claim 1, wherein said second remote signal is generated by a wireless electronic dial-up device.

4. The wireless earphone with a built-in mobile communications module as claimed in claim 3, wherein said wireless electronic dial-up device can be a Bluetooth mobile phone.

5. The wireless earphone with a built-in mobile communications module as claimed in claim 3, wherein said wireless electronic dial-up device can be a personal digital assistant.

6. The wireless earphone with a built-in mobile communications module as claimed in claim 1, wherein said mobile communications module can be a

personal handyphone system module.

7. The wireless earphone with a built-in mobile communications module as claimed in claim 1, wherein said mobile communications module can be a code division multiple access module.

8. The wireless earphone with a built-in mobile communications module as claimed in claim 1, wherein said digital signal processor comprises a voice transmission and encoding/decoding unit for encoding and decoding of voice and conversion between digital data and analog data.

9. The wireless earphone with a built-in mobile communications module as claimed in claim 1, wherein said wireless communications module is a Bluetooth communications module.

10. A dial-up method of a wireless earphone with a built-in mobile communications module comprising the steps of:

using a wireless electronic dial-up device to send digital data;

receiving said digital data and then generating a digital signal using a built-in wireless communications module;

using a digital signal processor to process said digital signal and then outputting a control signal; and

controlling said mobile communications module to accomplish full-duplex communications.